**LAB ASSIGNMENT-6**

**TASK**: Create a simple application to implement simple calculator in android.

**SOURCE CODE:**

**ACTIVITY\_MAIN.XMl :**

*<?*xml version="1.0" encoding="utf-8"*?>*<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:padding="16dp"  
 android:orientation="vertical"  
 tools:context="MainActivity">  
  
 <EditText  
 android:id="@+id/et1"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:inputType="number"  
 android:minHeight="48dp"  
 tools:ignore="SpeakableTextPresentCheck" />  
  
 <EditText  
 android:id="@+id/et2"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/et1"  
 android:layout\_alignParentStart="true"  
 android:inputType="number"  
 android:minHeight="48dp"  
 tools:ignore="SpeakableTextPresentCheck" />  
 <TextView  
 android:id="@+id/tv1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/et2"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="16dp"  
 android:text="0"  
 android:textColor="@android:color/black"  
 android:textSize="50sp" />  
 <Button  
 android:id="@+id/b1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_centerHorizontal="true"  
 android:layout\_centerVertical="true"  
 android:text="add" />  
 <Button  
 android:id="@+id/b2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_centerHorizontal="true"  
 android:layout\_centerVertical="true"  
 android:text="sub" />  
 <Button  
 android:id="@+id/b3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_centerHorizontal="true"  
 android:layout\_centerVertical="true"  
 android:text="mul" />  
 <Button  
 android:id="@+id/b4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_centerHorizontal="true"  
 android:layout\_centerVertical="true"  
 android:text="div" />  
</LinearLayout>

**MainActivity.JAVA :**

package com.example.add;  
import android.os.Bundle;  
import android.support.v7.app.AppCompatActivity;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.TextView;  
public class MainActivity extends AppCompatActivity {  
 EditText edt1,edt2;  
 TextView txtv1;  
 Button btn1,btn2,btn3,btn4 ;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 edt1 = findViewById(R.id.*et1*);  
 edt2 = findViewById(R.id.*et2*);  
 txtv1 = findViewById(R.id.*tv1*);  
 btn1 = findViewById(R.id.*b1*);  
 btn2= findViewById(R.id.*b2*);  
 btn3= findViewById(R.id.*b3*);  
 btn4= findViewById(R.id.*b4*);  
 btn1.setOnClickListener(v -> {  
 if (edt1.getText().toString().length() == 0) {  
 edt1.setText("0");  
 }  
 if (edt2.getText().toString().length() == 0) {  
 edt2.setText("0");  
 }  
 int num1 = Integer.*parseInt*(edt1.getText().toString());  
 int num2 = Integer.*parseInt*(edt2.getText().toString());  
 int sum = num1 + num2;  
 txtv1.setText(String.*valueOf*(sum));

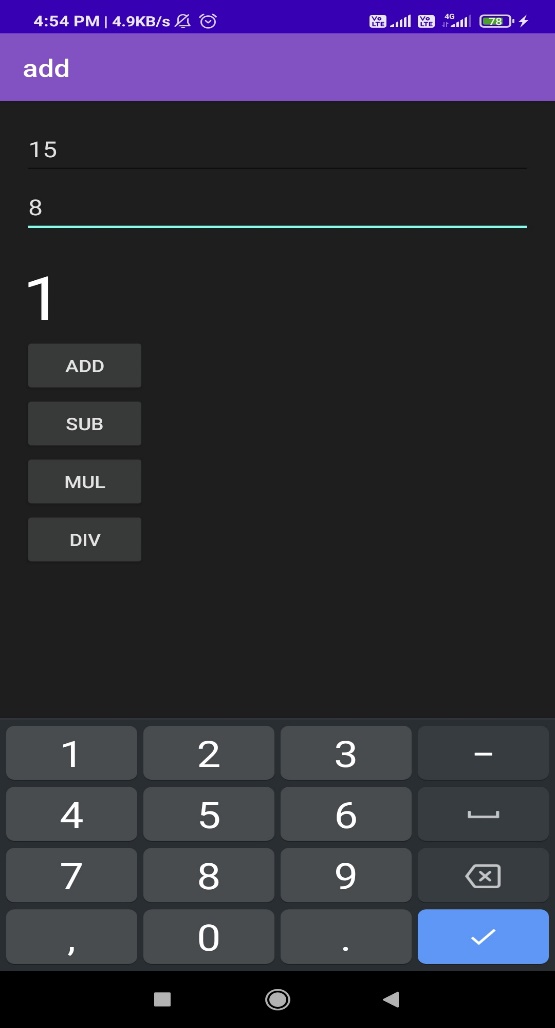
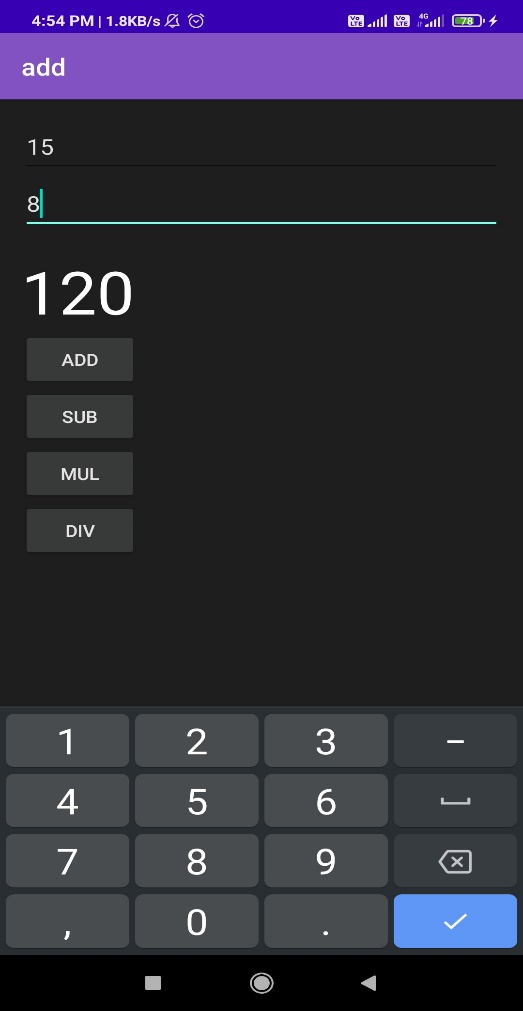
});  
 btn2.setOnClickListener(v -> {  
 if (edt1.getText().toString().length() == 0) {  
 edt1.setText("0");  
 }

if (edt2.getText().toString().length() == 0) {  
 edt2.setText("0");  
 }  
 int num1 = Integer.*parseInt*(edt1.getText().toString());  
 int num2 = Integer.*parseInt*(edt2.getText().toString());  
 int sub = num1 - num2;  
 txtv1.setText(String.*valueOf*(sub));  
 });  
  
 btn3.setOnClickListener(v -> {  
 if (edt1.getText().toString().length() == 0) {  
 edt1.setText("0");  
 }  
 if (edt2.getText().toString().length() == 0) {  
 edt2.setText("0");  
 }  
 int num1 = Integer.*parseInt*(edt1.getText().toString());

int num2 = Integer.*parseInt*(edt2.getText().toString());  
 int mul = num1 \* num2;

txtv1.setText(String.*valueOf*(mul));

});  
 btn4.setOnClickListener(v -> {  
 if (edt1.getText().toString().length() == 0) {  
 edt1.setText("0");  
 }  
 if (edt2.getText().toString().length() == 0) {  
 edt2.setText("0");  
 }  
 int num1 = Integer.*parseInt*(edt1.getText().toString());  
 int num2 = Integer.*parseInt*(edt2.getText().toString());  
 int div = num1 / num2;  
 txtv1.setText(String.*valueOf*(div));  
 });  
 }  
}

Output:

